



PM TRADE- FUTURE REQUIREMENTS INDUSTRY PLANNING FORUM

Rob Wolf

PM TRADE Strategic Requirements Integrator

1 December 2011

Visit the Live Training
Community Portal at:
LT2Portal.org





PM TRADE

PROJECT MANAGER TRAINING DEVICES

You Are Here

PM TRADE - 2011 I/ITSEC Events

MONDAY, 28 NOVEMBER

PM TRADE Grey Beard Session *Invitation Only*

- 1000 - 1200
- Army Meeting Room 202B (West)

TUESDAY, 29 NOVEMBER

TSIS Update - COL Flanagan

- 1330 - 1415
- Army Booth 143

LT2 Portal: Info/Demo Session - Dillon

- 1500 - 1600
- Army Service Room 202A (West)

Live Training Instrumentation for Unmanned Systems: Challenges and Lessons Learned - Sincebaugh (P)*

- 1600
- Room 304E

Leveraging SOA within Live Training: An Assessment - Kehr, Garcia (P)*

- 1630
- Room 304E

Proven Strategies for Securely Sustaining Simulators and Training Systems - Fleener (P)*

- 1700
- Room 304H

WEDNESDAY, 30 NOVEMBER

FASIT Technology Working Group: Low Bandwidth Framework - Todd

- 0800 - 1000
- Army Meeting Room 202B (West)

Common Through Sight Video - Crew Module Unit Recorder (CTSV-CMUR) *Invitation Only*

- 0800 - 1000
- Government Meeting Room #2 (207C)

Live Training Standards (Embedded Standards Update) -

- Kemper, Sincebaugh
- 0900 - 1100
- Army Service Room 202A (West)

Live Training Campaign Plan Brief - COL Flanagan, COL Connors

- 1300 - 1500
- Room 304C

Embedded Training Workshop #3 *Invitation Only*

- 1430 - 1630
- Government Meeting Room #2 (207C)

Use of the iPod Touch for Live Training - Logan, Campos (P)*

- 1630
- Room 304A

THURSDAY, 1 DECEMBER

Next Generation of Distributed Training Utilizing SOA, Cloud Computing, and Virtualization - Lanman, Horvath (P)*

- 0830
- Room 304A

PM TRADE - Future Requirements Industry Planning Forum - Wolf

- 0900 - 1000
- Army Service Room 202A (West)

Employing the Second Generation Software Product-line for Live Training Transformation - Lanman, Kemper (P)*

- 1030
- Room 304H

Development of Embedded Live, Virtual, and Constructive Training - Harrison, Rhinesmith (P)*

- 1100
- Room 304H

(P)* Paper Sessions

Partnering with Industry to Improve Efficiencies



Industry



Industry Panel educating PM TRADE workforce on the complexities of business capture planning and proposal development (3 Nov 2011 - Brief posted on LT2 Portal)

- *Industry addressed - Overall level of effort, resources, dependencies, timelines, planning & execution complexities required to prepare a successful proposal*
- *Our intent is that through a better understanding of industries process we will be more deliberate in our spoken and written requests to improve both our efficiency*

PM TRADE

PM TRADE is hosting 14 Information Sessions during I/ITSEC to help Industry plan and prepare for doing business with PM TRADE.

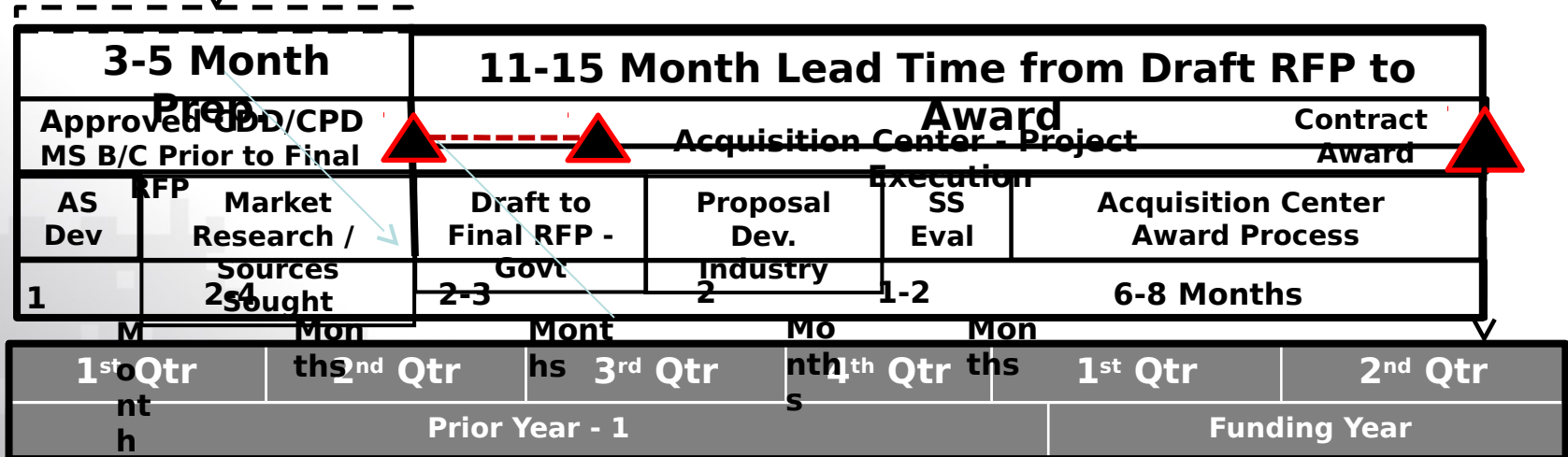
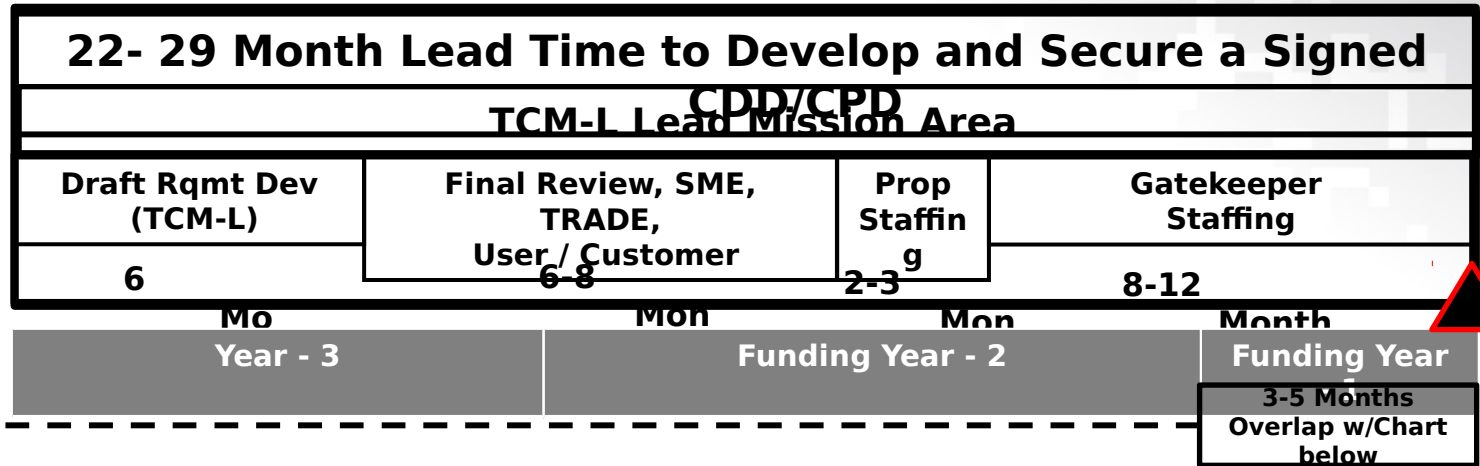
- ✓ **LT2 Portal Tutorial**
- ✓ **Technical Sessions**
 - **Standards Development**
 - **Work Shops**
- ✓ **Paper Presentations**
 - **SOA and Virtualization Concepts**
 - **Sustainment Strategies**
 - **Lessons Learned**
- ✓ **Live Training Campaign Plan**
- ✓ **Future Requirements Forum**

Requirements to Award Timeline



Boat Developer Timeline (TCM-L)

Requirements
Lead Time to
Award
33-43 Months



Boat Developer Timeline (PM TRADE)

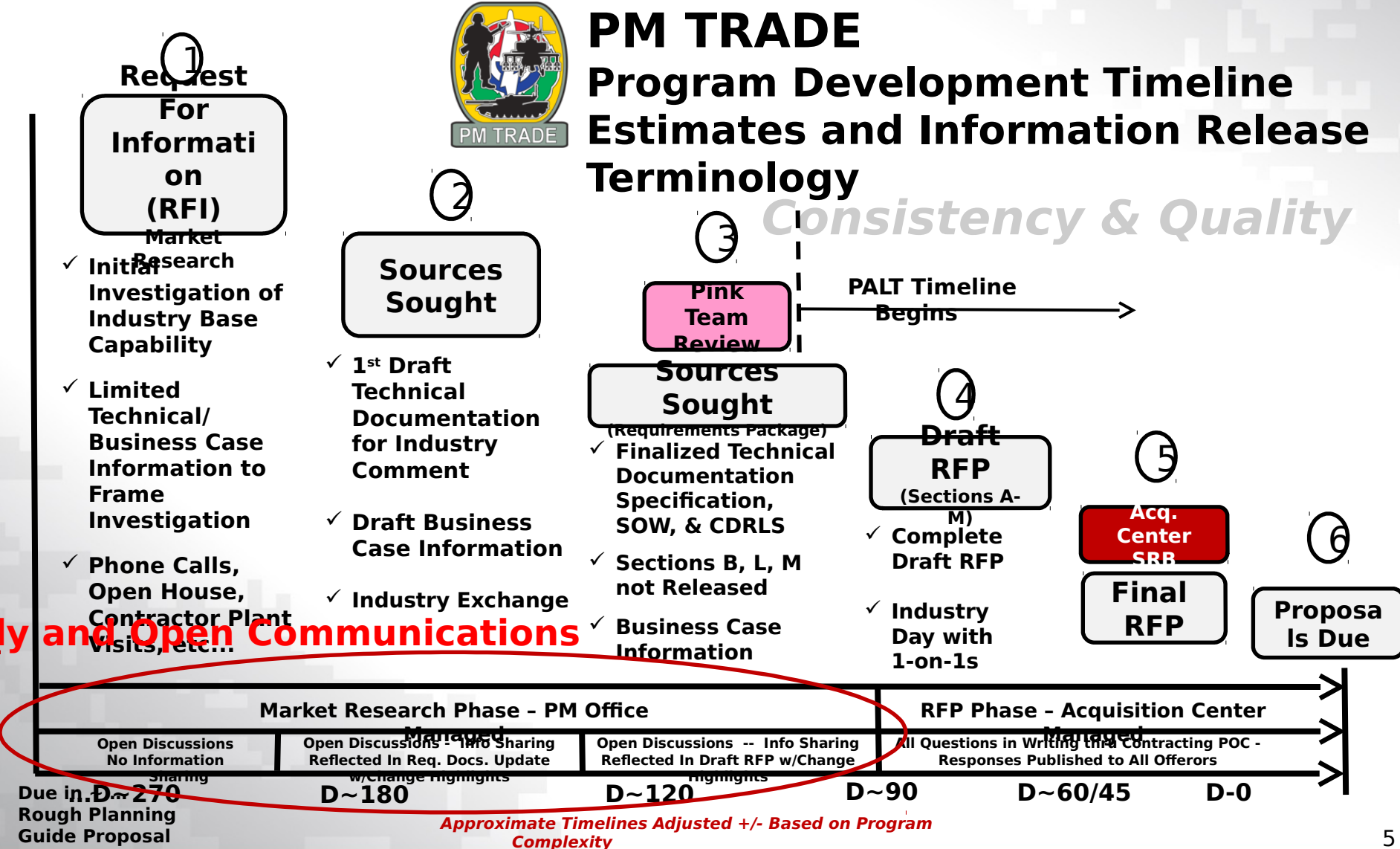
Industry Business Development Planning Map



PM TRADE Program Development Timeline Estimates and Information Release Terminology

Consistency & Quality

Open and Open Communications



FY 13 Business Opportunities



<u>Organization</u>	<u>Program</u>	<u>Contract Vehicle</u>	<u>RFP Release</u>	<u>Award Date</u>
PM CTIS	CTC-IS	STOC II	Nov. 11 Jan. 12	June 12 Nov. 12
PM CTIS	HITS EXCON	STOC II	May 11	Oct. 11 Jan. 12
PM CTIS	ICS	Open (Tentative)	Jun. 12	Mar. 13
PM DT	LOMAH	CARTS	Nov. 11	Feb. 12
PM DT	PDSS	CARTS	Oct. 12	Mar. 12
PM DT	N-CHS	CARTS	Feb. 12	May 12
PM DT	CATSD	CARTS	Feb. 12	May 12
PM DT	BES II	Open	Nov. 11 Feb. 12	Apr. 12 Jul. 12
PM LTS	CV TESS	STOC II	Jan. 11	Jan. 12
PM LTS	OSWV	TBD	TBD	Feb. 13** Feb. 15**
PM ITS	IEDES	STOC II SB (Tent.)	Feb. 12	Sep. 12

****Revised date pending CPD approval -funding resolution**

CTC-IS - Combat Training Center - Instrumentation System

HITS EXCON - Home Station Instrumentation Training System EXCON

ICS - Instrumentation Communication Subsystem

LOMAH - Location of Hit and Miss Range

PDSS - Post Deployment Software Support

N-CHS - Non-Contact Hit Sensor Development

CATSD - Common Armor Target Silhouette Development

BES II - Battlefield Effects Simulator

CV TESS - Combat Vehicle TESS

OSWV - Opposing Force Surrogate Wheeled Vehicle

IEDES - Improvised Explosive Device Effects Simulator

Instrumentation Communication

Subsystem (ICS)

for the Home Station Instrumentation Training System



(HITS)

Description/Summary of Program

Requirements

PEO STRI Project Manager for Training Devices (PM TRADE) has a requirement to procure up to nineteen (19)

Instrumentation Communication Subsystem (ICS) at a fielding rate of one per quarter beginning in 4Q13 and ending in 4Q18. The ICS provides the bidirectional interface between the HITS exercise control subsystem (EXCON) and the vehicles and soldiers equipped with U.S. Army Tactical Engagement Simulation Systems. This effort includes production and shipping of the network infrastructure and radio player units, individual and vehicle mounting kits, logistics data, spares, manuals, TESS and CTIA interface, New Equipment Training, system verification and validation, and technical support to the EXCON production vendor. OCONUS sites include Hawaii, Alaska, Germany, and Korea. PM TRADE will not fund

any development under this effort.

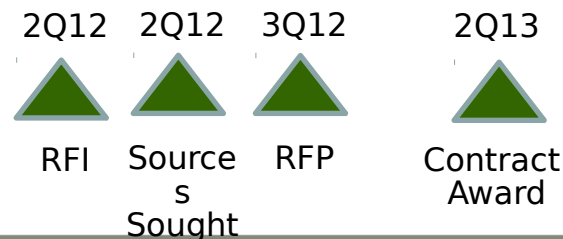
Acquisition Strategy

- Full open Competition (Tentative)
- Firm Fixed Price

Period of Performance

• Base year award with 4 option years

Milestones



Point of Contact

Name: Mr. Mike Chura
Organization: PEO STRI / PM TRADE
Phone: (407) 384-5280
Email: michael.chura@us.army.mil

Funding

- OPA FY 13 - 18: \$157.8 Million

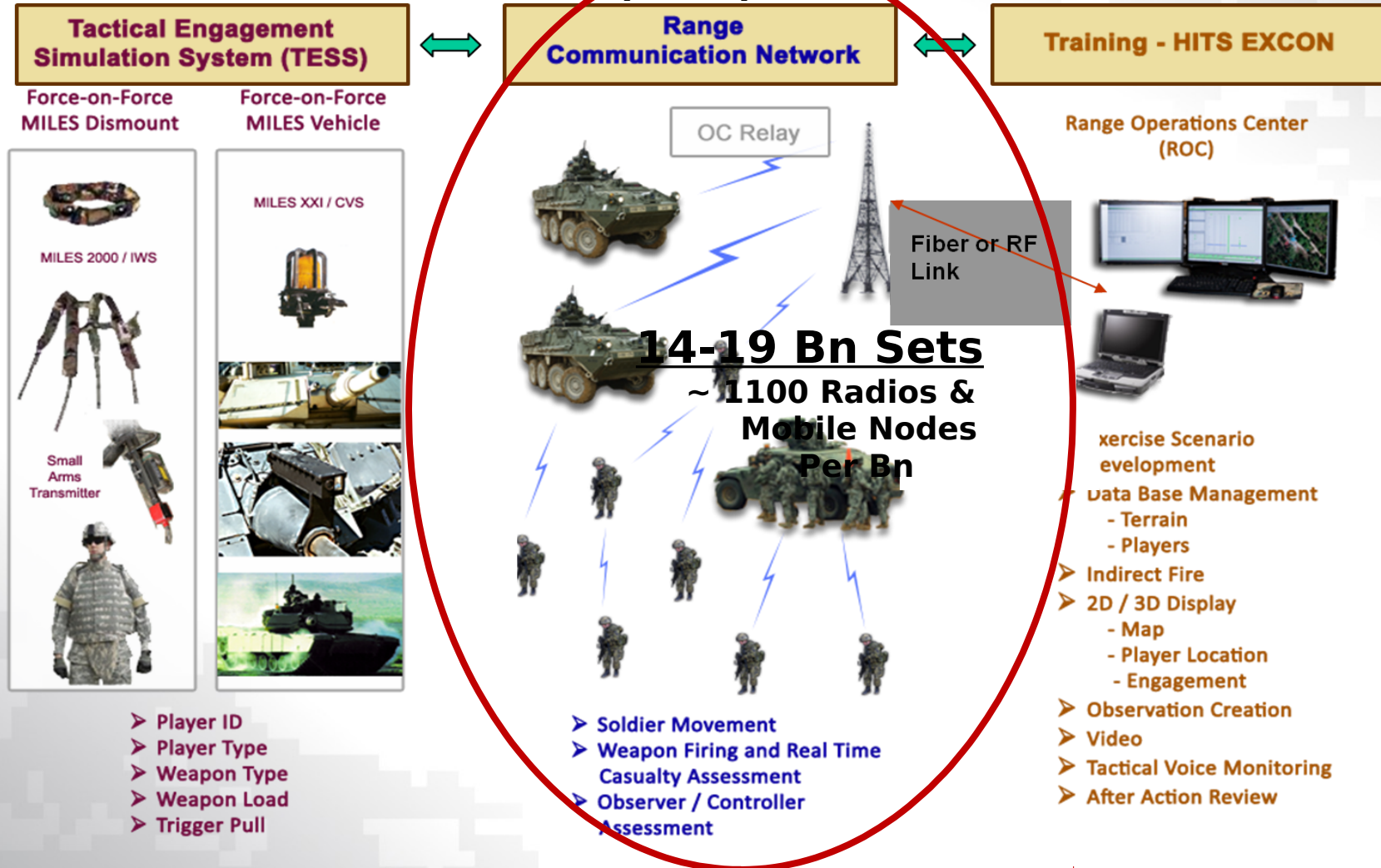
Current Contract/Original Developer/OEM (if

- recompete)
Current contract is Interim Range System (IRS) by Saab Training USA
- Intent is 2-4 sites with IRS - total requirement is 19 sites.

Instrumentation Communication Subsystem (ICS)



for the Home Station Instrumentation Training System (HITS)



Technical Requirements/Capability Very Similar to IRS Specification

Opposing Force Surrogate Wheeled Vehicle




(OSWV)



Upgrade US Army Combat Training Center Opposing Force Vehicles

- **Tactical Vehicles:** Develop and Integrate Visual Modifications (VISMOSDS) on existing tactical vehicles - HMMWV ~ 69, MFTV-12 Indirect Fire, APC ~123 (Vehicle Type TBD)
- **Technical Vehicles** (Pick-Up Trucks w/ mounted weapons) : Acquire/configure ~270 with Weapon Mounts
- **Civilian On Battlefield Vehicles (COB-V):** ~720 used cars and trucks
- **Instrumentation:** MILES and CTC Radio integration (MILES/Radios acquired via existing contracts)

Program moved to the right 2 years FY13 to FY15 award

Acquisition	Period of Performance	Milestones
<ul style="list-style-type: none"> • Strategy TBD - Pending CPD • Market Research to be conducted in early to mid FY12 - Weapon Platform and Vehicle Acquisition 	<ul style="list-style-type: none"> • TBD 	<div> <div>June 2013</div> <div>Pending Req Doc Approval</div> <div>Feb. 2015</div> </div> <div>    </div> <div> <div>RFI</div> <div>RFP Release</div> <div>Contract Award</div> </div>
Point of Contact	Funding	Current Contract/Original Developer/OEM (if recomplete)
<ul style="list-style-type: none"> • Point of Contact <p>Name: LTC Scott Tufts Organization: PM LTS Phone: 407-384-5190 Email: scott.tufts@us.army.mil</p>	<ul style="list-style-type: none"> • \$48M OPA over FY15 - FY20 (TBD) 	<ul style="list-style-type: none"> • TBD



OSWV to be fielded at each CTC (NTC, JRTC, CMTC)



~~simulate Indirect~~

Contractor LOE TBD - Possible TACOM Action



Pintle Weapon Mount Development and Integration ~ 50% will be Pickup Trucks

Improvised Explosive Device Effects Simulator (IEDES)



Description/Summary of Program

Requirements

Mission - The IEDES Kit will support key U.S. Military IED training objectives of: Explosive Hazards (EHs) defeat, predict, prevent, detect, classify, neutralize, mark, report and record EH; and to protect personnel, equipment and facilities from EH effects.

Configuration - Explosive signatures: Small, Medium, Large, and Extra Large.

Fielding - IEDES will support training missions at Combat Training Centers, Home Stations, Joint Training Facilities and Homeland Security / Homeland Defense.



Training installations.

Acquisition

• **Strategy** STOC II SB
(Tentative)

- Small Business Set Aside
- Firm Fixed Price, T & M Quantity

Pricing

Point of Contact

Name: Mr. Ron Inmon
Organization: PEO STRI/PM LTS
Phone: (407) 384-3364
Email: Ron.Inmon@us.army.mil

Period of Performance

- Base period plus any 4 options
(FY 13 - FY 17)

Funding

- Possible funding: \$49M

Milestones

Dec 11	Feb/April 12	Nov 12
Sources Sought	Draft /Final RFP Release	Contract Award

Current Contract/Original Developer/OEM (if recompet)

- Current Contract Type: STOC II

IEDES - Sources Sought Release,

Dec 11

Non-Pyrotechnic System

- **Non-Pyrotechnic signature devices** that are scalable and allow multiple shots before requiring reloading; Device replicates small through large signatures



- **Commercial and reusable recharge systems**



- **MILES Omni Directional Emitter Capability**



- **Push/Pull Booby Trap device**



- **Pressure Sensitive Personnel Trip device**



- **Suicide Vest**

- **Interface Device / Controller**

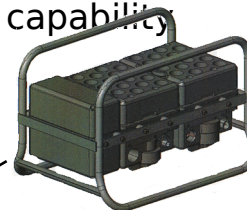


- **Triggering Device** RF/Command Wire



Pyrotechnic Capability

- Pyrotechnic Scalable Signature Devices that is scalable and allows multiple shots before requiring reloading; Device replicates small through extra-large signatures
- Interface Device / Controller required to operate Pyrotechnic capability



Current Fielded IEDES can be seen in the PM TRADE Booth.

Mr. Ron Inmon, 11am
Additional non-Pyrotechnic capability

- **UB-IED** (underground)
- **VB-IED** (attached to a vehicle)

BLUFOR IED Training ~ RFI Mar



2012 SPIDER System

Common Control Station

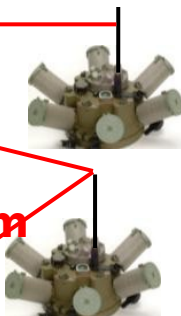
Enables Man-in-the-Loop (MITL) command and control of all munitions Standard antenna mast



Transceiver

RCU with transceiver (RCUT) makes up the Remote Control Station (RCS) Kit

Repeater



Selectable Lightweight Attack Munition



Claymore Mine



SPIDER Munition

Munition Control Unit

Hand emplaced, remotely controlled munitions. Detects intrusions, controls lethal and non-lethal munitions



One Tactical Engagement Simulation System (OneTESS)



Description/Summary of Program

Requirements

60mm/81mm/120mm Mortar Instrumentation Kit

Force-on-Force battalion and below **Mortar** and **Forward Observer training** at Home Station, Combat Maneuver Training Centers, and deployed sites.

Integrated instrumentation system solution at ranges and interoperable with I-MILES.



Acquisition Strategy

- Full open Competition (Tentative)
- Fixed Price Incentive Fee

Period of Performance

Base year award with 4 option years

Milestones

Jun/Aug 12	Nov 12	Sep 13
		
RFI/ Sources Sought	Final RFP Release	Contract Award

Point of Contact

Name: Mr. Todd Kosis
 Organization: PEO STRI/PM LTS
 Phone: (407) 384-5352
 Email: todd.kosis@us.army.mil

Funding

- Possible funding: \$20M

Current Contract/Original Developer/OEM (if recompet)

- New procurement

OneTESS System Components



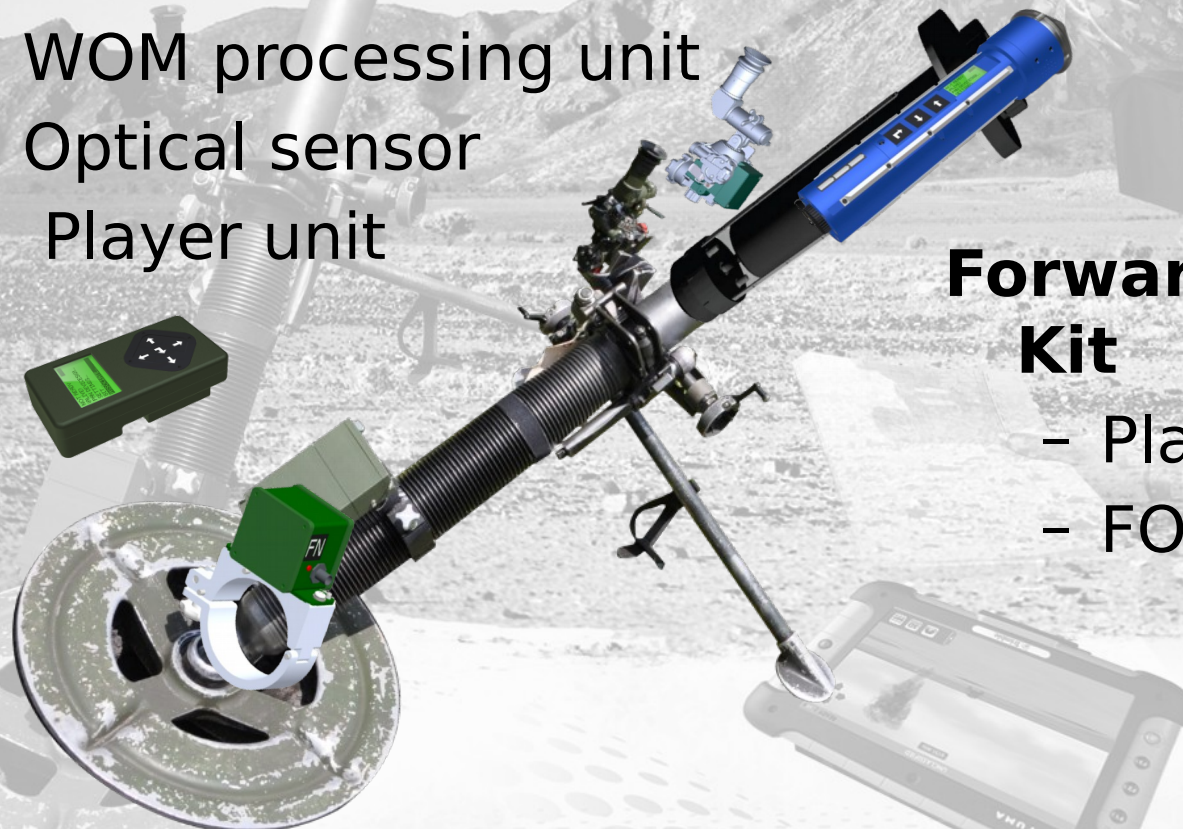
Instrumented Mortar Kit (60mm, 81mm, 120mm)

- Barrel collar
- Mortar simulator round
- WOM processing unit
- Optical sensor
- Player unit

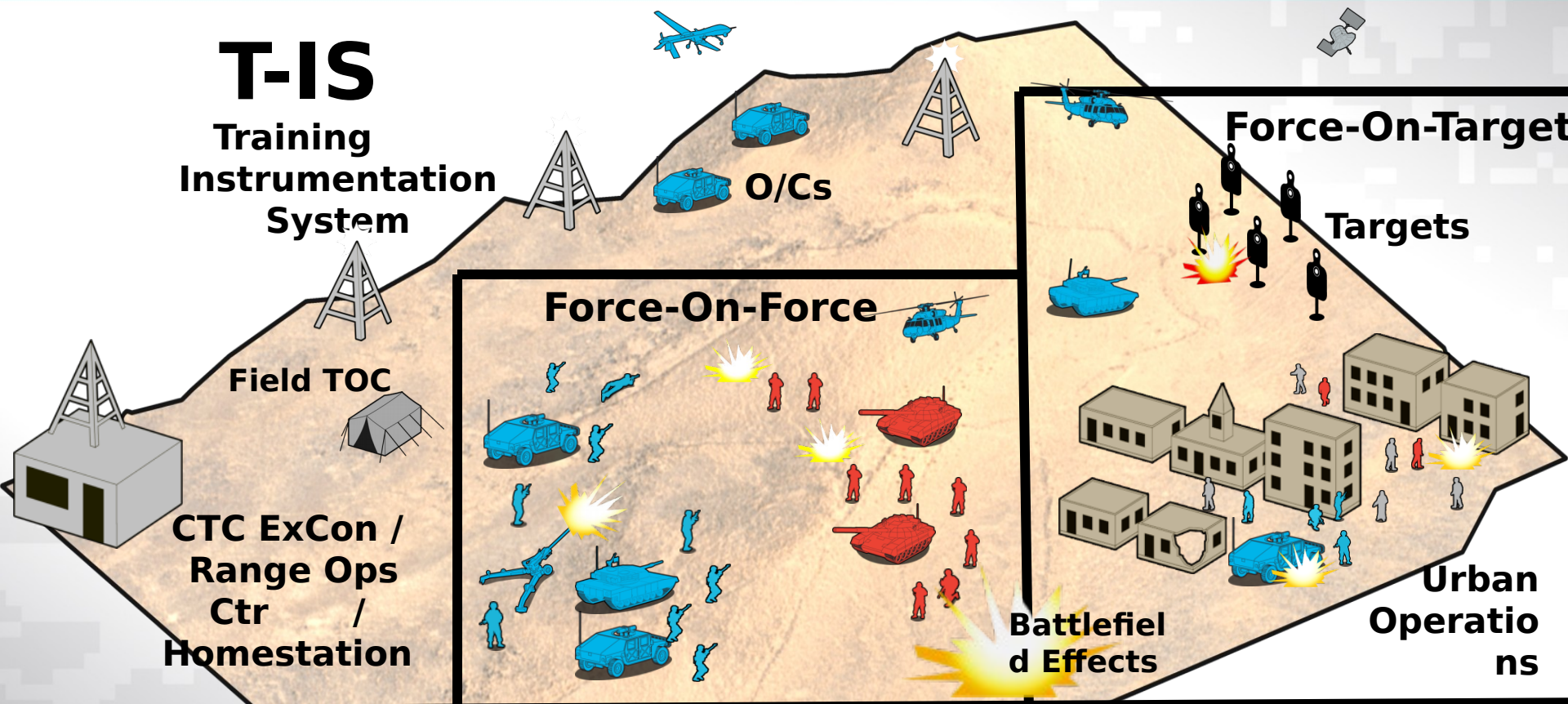
Mr. Todd Kosis
PM TRADE Booth 11AM

Forward Observer Kit

- Player unit
- FO Tablet



PM TRADE Functional Mission Area Training Environment



ExCon & Comms

Simulated Fire

Live Fire

Combined Arms Engagement Pairing
BLUFOR & OPFOR

Instrumented Urban Operations,
& Battlefield Effects

PM LTS A-TESS

PM DT FASIT

Standards Management (CTIA, ATESS, FASIT) - APM TRADE

PM TRADE Acquisition Transformation: Process /

ExCon, AAR, RF Comms. **T-IS**

Training Instrumentation System (T-IS)



T-IS Focus:

- ✓ **Reduce Operational, Sustainment, and Support Costs**
- ✓ **Simplify AAR Development Process and Enhance AAR Product** (semi-automation and data correlation)
- ✓ **Correlated / Integrated Database Architecture** (Instrumentation, OCCS, Video, ABCS, Tactical voice)
- ✓ **Common Scalable Architecture across CTCs, Live Fire Ranges and Homestation**
 - **Future authority for CTIA capability development**
- ✓ **Common Standards/Architectures across LT2-PM TRADE Road Map**
- ✓ **Active Inventory Management System** (equipment distribution & recovery)

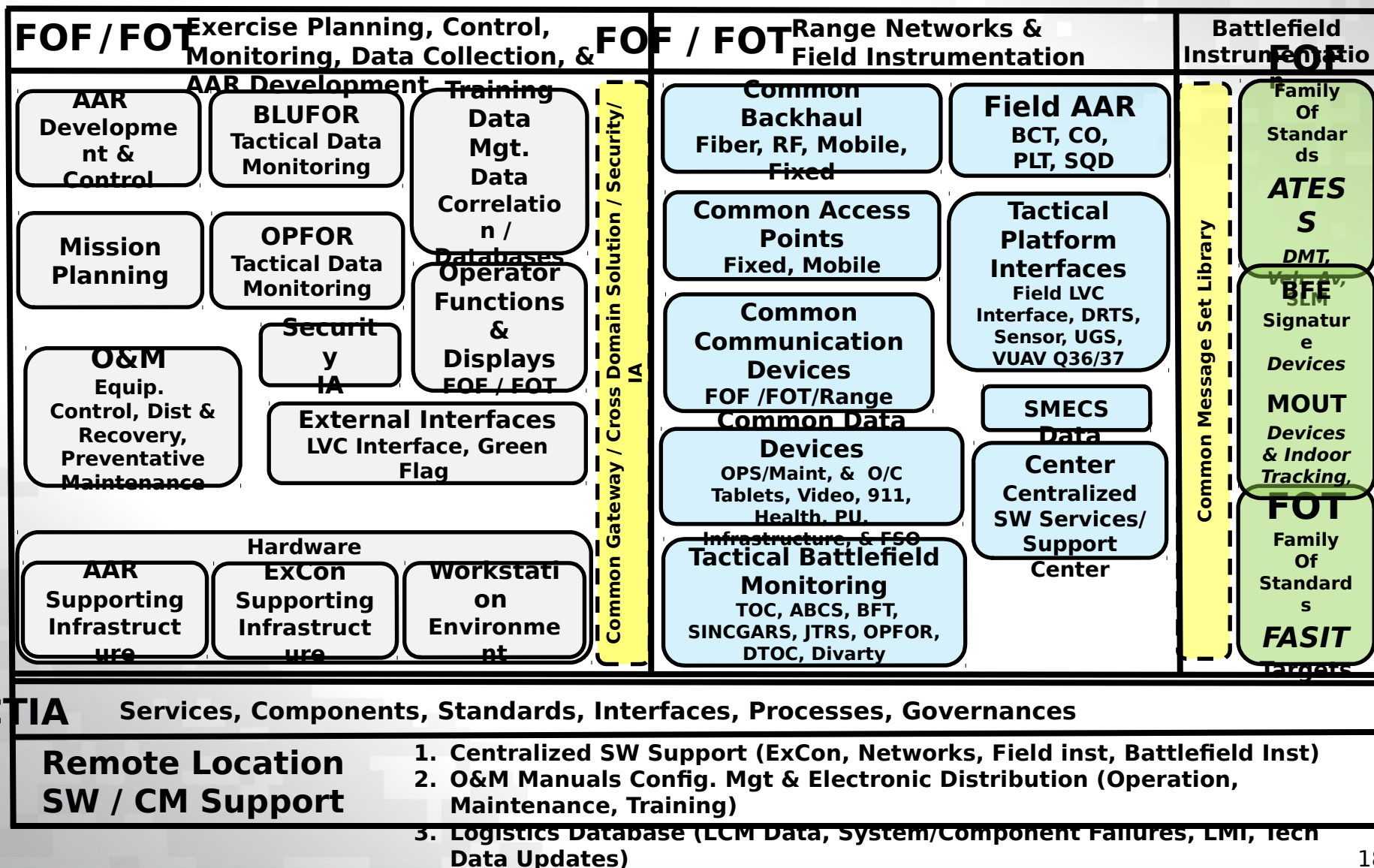
Possible ACAT II Level Program <\$250M RDTE, OPA, and OMA



- ✓ **T-IS CDD Approved NLT late FY14**
- ✓ **FY15 Award? PM TBD based on POM information: Process /**

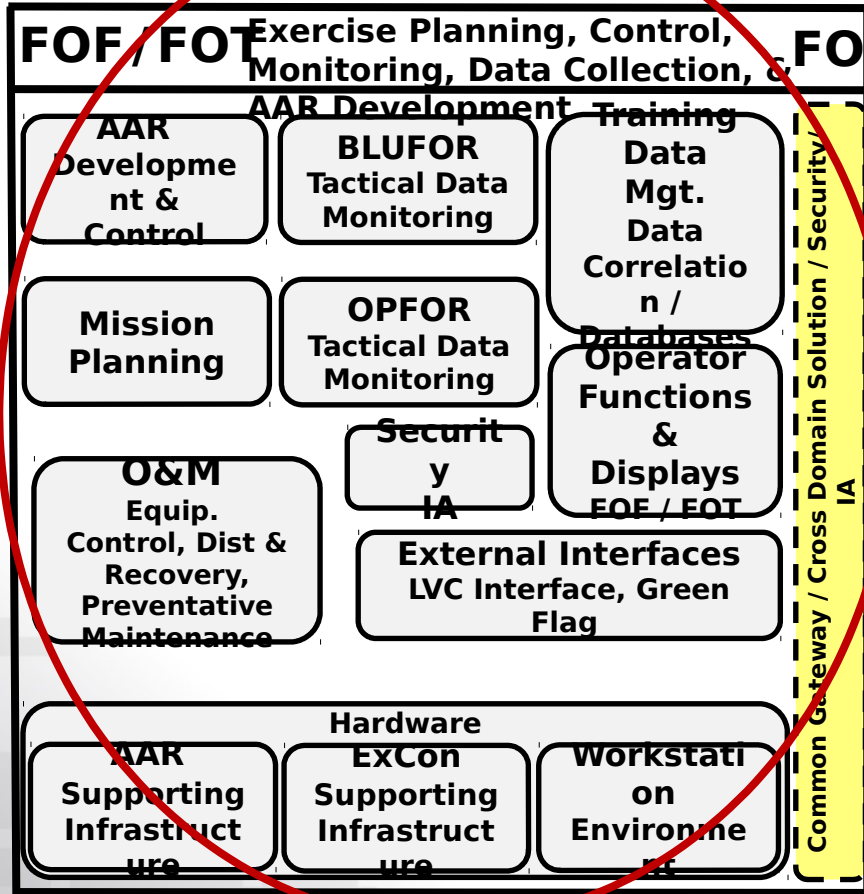
Training Instrumentation System (TIS) Functional Allocation Planning Map

DRAFT



Training Instrumentation System (TIS) Functional Allocation Planning Map

DRAFT



Exercise Planning, Control, Monitoring, Data Collection, & AAR Development

✓ Common Architecture/SW for FOF, FOT, and Homestation

- Variations in individual User configurations GUI, and messages sets

✓ Embedded Mission Planning function enables pre-AAR event correlation of voice, video, instrumentation, and ABCS

✓ Remote SW Configuration Management for all ExCon, Range Inst/Nets, and TESS

CTIA Services, Components, Standards, Interfaces, Processes, Governances

Remote Location SW / CM Support

1. Centralized SW Support (ExCon, Networks, Field Inst, Battlefield Inst)
2. O&M Manuals Config. Mgt & Electronic Distribution (Operation, Maintenance, Training)
3. Logistics Database (LCM Data, System/Component Failures, LMI, Tech Data Updates)

Proactive O&M, Sustainment, and equipment distribution/recovery features

Training Instrumentation System (TIS) Functional Allocation Planning Map

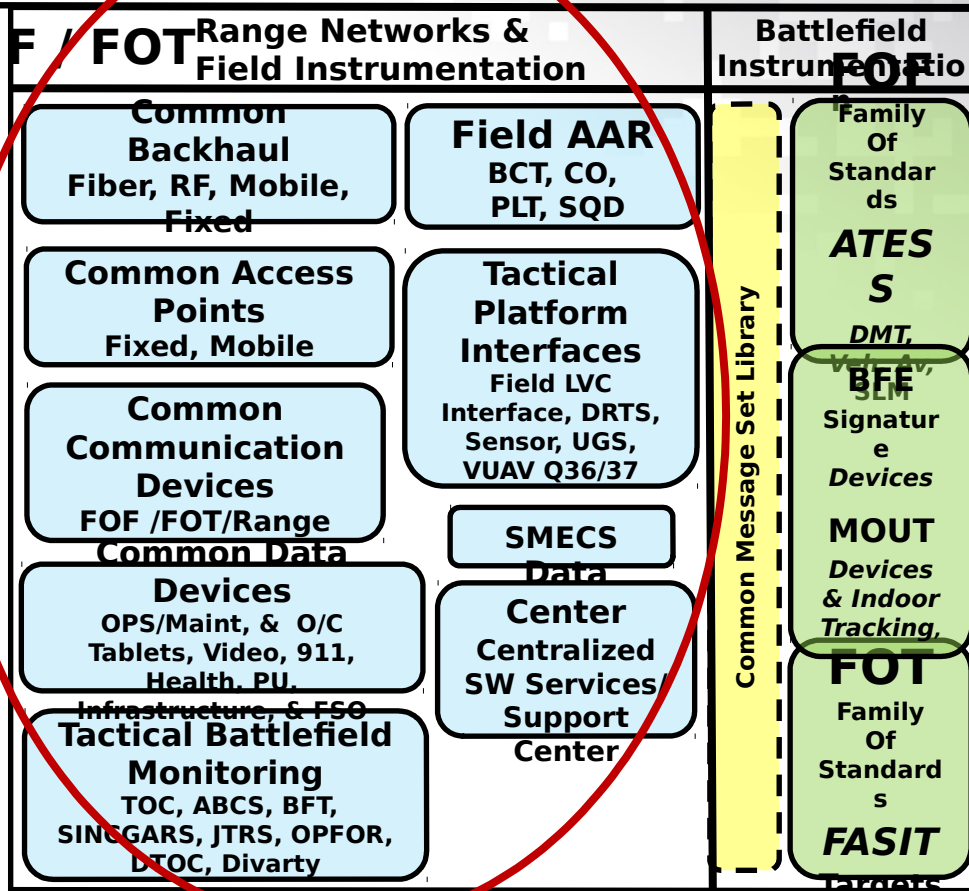
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Range Networks & Field Instrumentation

(excluding FOF & FOT Battlefield Inst.)

- ✓ Common Architecture, Networks, SW for FOF, FOT, and Homestation
- ✓ Scalable architecture common platform interfaces
- ✓ Tactical Battlefield Monitoring
- ✓ Supports Battlefield Inst CM
- ✓ Proactive O&M, Sustainment, and equipment distribution/recovery features



CTIA Services, Components, Standards, Interfaces, Processes, Governances

Remote Location SW / CM Support

1. Centralized SW Support (ExCon, Networks, Field inst, Battlefield Inst)
2. O&M Manuals Config. Mgt & Electronic Distribution (Operation, Maintenance, Training)
3. Logistics Database (LCM Data, System/Component Failures, LMI, Tech Data Updates)

T-IS Industry Advance Planning Forum



T-IS Functional Requirements Planning Forum

- ✓ **Spring 2012** - Date predicated on Draft CDD maturity
- ✓ **Functional Requirements Discussion (Architecture/Technical)**
- ✓ **1-2 Days in Orlando, PEOSTRI**
- ✓ **~ 30 days advance notice provided on LT2 Portal**

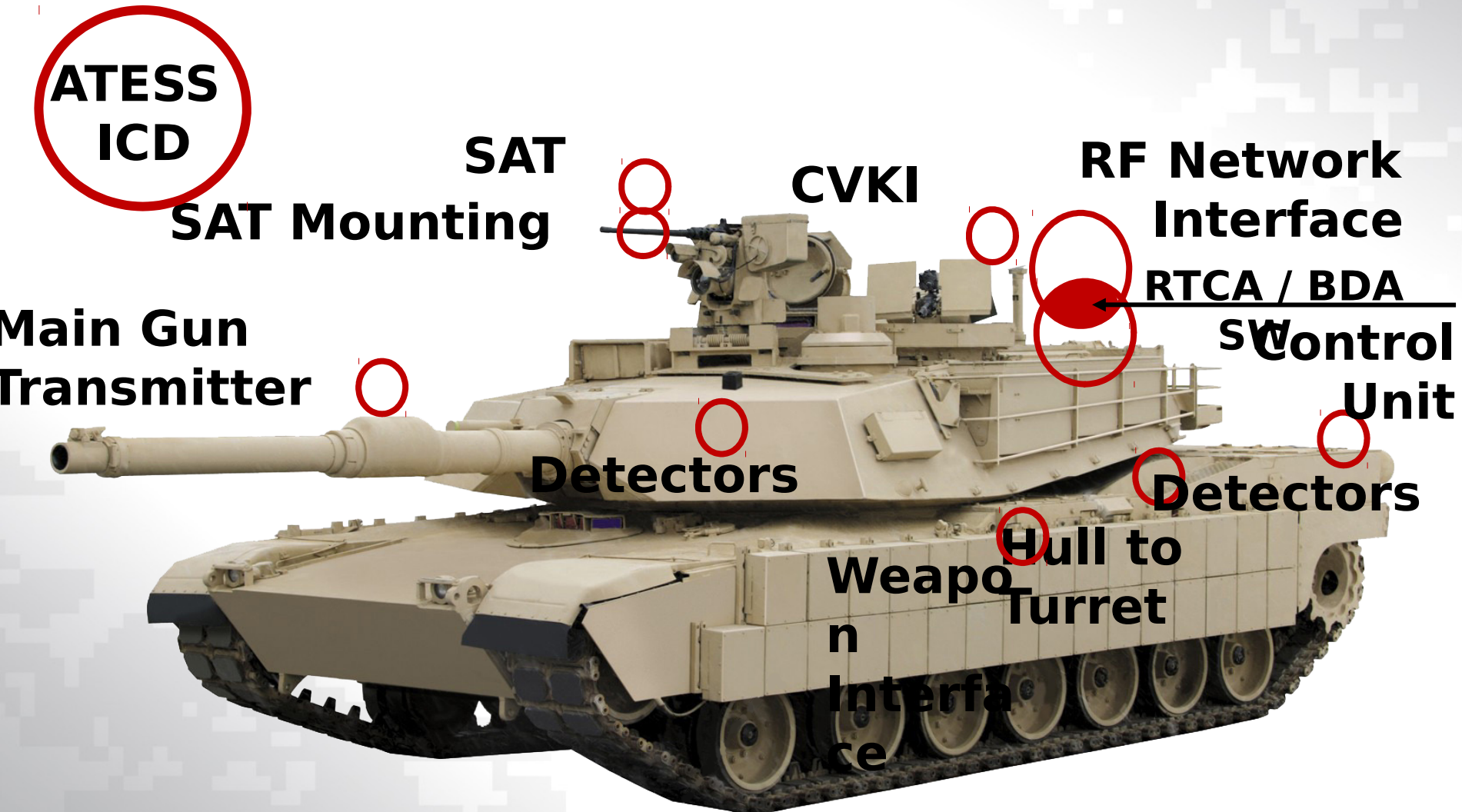
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A-TESS Future ICDs - Dismount



A-TESS Future ICDs - Vehicle

DRAFT



A-TESS Industry Advance Planning Forum



A-TESS Functional Requirements / Architecture / Standards Development Forum

- ✓ 8 & 9 February 2012,
 - PEO STRI, Building PIII, Rooms 321b & 320
- ✓ Functional Requirements Overview
- ✓ Initiate Standards Development Discussion
- ✓ Agenda and RSVP will be posted on LT2 Portal

It2portal.org